

## SEQUENCE LISTING

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<110> Cohen, Stanley N.
      Li, Limin
<120> Mammalian Tumor Susceptibility Genes and Their Uses
<130> 5398-027-27CONT
<140> US 10/697,720
<141> 2003-10-29
<150> US 09/804,690
<151> 2001-03-12
<150> US 09/146,187
<151> 1998-09-01
<150> US 08/977.818
<151> 1997-11-25
<150> US 08/670,274
<151> 1996-06-13
<150> US 08/585,758
<151> 1996-01-16
<150> US 60/006,856
<151> 1995-11-16
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atg atg tcc aag tac aaa tat aga gat cta acc gtc cgt caa act gtc
Met Met Ser Lys Tyr Lys Tyr Arg Asp Leu Thr Val Arg Gln Thr Val
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aat gtc atc gct atg tac aaa gat ctc aaa cct gta ttg gat tca tat
Asn Val Ile Ala Met Tyr Lys Asp Leu Lys Pro Val Leu Asp Ser Tyr
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204

gtt ttt aat gat ggc agt tcc agg gag ctg gtg aac ctc act ggt aca

Val Phe Asn Asp Gly Ser Ser Arg Glu Leu Val Asn Leu Thr Gly Thr

40

35

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							gtt Val	300
							gca Ala 95	348
							cgg Arg	396
							gag Glu	444
							cca Pro	492
							cca Pro	540
							ggt Gly 175	588
							aca Thr	636
							agc Ser	684
							tca Ser	732
							ggt Gly	780
							aaa Lys 255	828
							gaa Glu	876
							gaa Glu	924

972

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cta agt tct gct ctg gag aaa atg gaa aat caa tct gaa aat aat gat
Leu Ser Ser Ala Leu Glu Lys Met Glu Asn Gln Ser Glu Asn Asn Asp
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att gat gaa gtt atc att ccc aca gcc cca ctg tat aaa cag att cta
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Ile Asp Glu Val Ile Ile Pro Thr Ala Pro Leu Tyr Lys Gln Ile Leu
                    310
aat ctg tat gca gag gaa aat gct att gaa gac act atc ttt tac ctt
                                                                   1068
Asn Leu Tyr Ala Glu Glu Asn Ala Ile Glu Asp Thr Ile Phe Tyr Leu
                325
gga gaa gct ttg cgg cgg gga gtc ata gac ctg gat gtg ttc ctg aaa
                                                                   1116
Gly Glu Ala Leu Arg Arg Gly Val Ile Asp Leu Asp Val Phe Leu Lys
            340
                                345
cac gtc cgc ctc ctg tcc cgt aaa cag ttc cag cta agg gca cta atg
                                                                   1164
His Val Arg Leu Leu Ser Arg Lys Gln Phe Gln Leu Arg Ala Leu Met
       355
                            360
                                                365
caa aag gca agg aag act gcg ggc ctt agt gac ctc tac tgacatqtqc
                                                                   1213
Gln Lys Ala Arg Lys Thr Ala Gly Leu Ser Asp Leu Tyr
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tgtcagctgg agaccgacct ctccgtaaag cattcttttc ttcttctttt tctcatcagt 1273
agaacccaca ataagttatt gcagtttatc attcaagtgt taaatatttt gaatcaataa 1333
tatattttct gtttcctttg ggtaaaaact ggcttttatt aatgcacttt ctaccctctg 1393
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Ile Pro Val Arg Tyr Arg Gly Asn Ile Tyr Asn Ile Pro Ile Cys Leu
Trp Leu Leu Asp Thr Tyr Pro Tyr Asn Pro Pro Ile Cys Phe Val Lys
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Pro Thr Ser Ser Met Thr Ile Lys Thr Gly Lys His Val Asp Ala Asn
                                    90
Gly Lys Ile Tyr Leu Pro Tyr Leu His Asp Trp Lys His Pro Arg Ser
            100
                                105
Glu Leu Leu Glu Leu Ile Gln Ile Met Ile Val Ile Phe Gly Glu Glu
        115
                            120
Pro Pro Val Phe Ser Arg Pro Thr Val Ser Ala Ser Tyr Pro Pro Tyr
                        135
Thr Ala Thr Gly Pro Pro Asn Thr Ser Tyr Met Pro Gly Met Pro Ser
                    150
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Gly Ile Ser Ala Tyr Pro Ser Gly Tyr Pro Pro Asn Pro Ser Gly Tyr
                165
                                    170
Pro Gly Cys Pro Tyr Pro Pro Ala Gly Pro Tyr Pro Ala Thr Thr Ser
            180
                                185
Ser Gln Tyr Pro Ser Gln Pro Pro Val Thr Thr Val Gly Pro Ser Arg
        195
                            200
                                                 205
Asp Gly Thr Ile Ser Glu Asp Thr Ile Arg Ala Ser Leu Ile Ser Ala
                        215
                                            220
Val Ser Asp Lys Leu Arg Trp Arg Met Lys Glu Glu Met Asp Gly Ala
                    230
                                        235
Gln Ala Glu Leu Asn Ala Leu Lys Arg Thr Glu Glu Asp Leu Lys Lys
                                    250
Gly His Gln Lys Leu Glu Glu Met Val Thr Arg Leu Asp Gln Glu Val
                                265
                                                     270
Ala Glu Val Asp Lys Asn Ile Glu Leu Leu Lys Lys Lys Asp Glu Glu
                            280
                                                 285
Leu Ser Ser Ala Leu Glu Lys Met Glu Asn Gln Ser Glu Asn Asn Asp
                        295
                                             300
Ile Asp Glu Val Ile Ile Pro Thr Ala Pro Leu Tyr Lys Gln Ile Leu
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                                        315
Asn Leu Tyr Ala Glu Glu Asn Ala Ile Glu Asp Thr Ile Phe Tyr Leu
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                                    330
Gly Glu Ala Leu Arg Arg Gly Val Ile Asp Leu Asp Val Phe Leu Lys
            340
                                345
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Gln Lys Ala Arg Lys Thr Ala Gly Leu Ser Asp Leu Tyr
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atggtgtcca agtacaaata cagagaccta actgtacgtg aaactgtcaa tgttattact 180
ctatacaaag atctcaaacc tgttttggat tcatatgttt ttaacgatgg cagttccagg 240
gaactaatga acctcactgg aacaatccct gtgccttata gaggtaatac atacaatatt 300
ccaatatgcc tatggctact ggacacatac ccatataatc cccctatctg ttttgttaag 360
cctactagtt caatgactat taaaacagga aagcatgttg atgcaaatgg gaagatatat 420
cttccttatc tacatgaatg gaaacaccca cagtcagact tgttggggct tattcaggtc 480
atgattgtgg tatttggaga tgaacctcca gtcttctctc gtcctatttc ggcatcctat 540
ccgccatacc aggcaacggg gccaccaaat acttcctaca tgccaggcat gccaggtgga 600
atetetecat acceateegg ataceeteee aateeeagtg gttaceeagg etgteettae 660
ccacctggtg gtccatatcc tgccacaaca agttctcagt acccttctca gcctcctgtg 720
accactgttg gtcccagtag ggatggcaca atcagcgagg acaccatccg agcctctctc 780
atetetgegg teagtgacaa aetgagatgg eggatgaagg aggaaatgga tegtgeecag 840
gcagagetea atgeettgaa aegaacagaa gaagaeetga aaaagggtea eeagaaaetg 900
gaagagatgg ttacccgttt agatcaagaa gtagccgagg ttgataaaaa catagaactt 960
ttgaaaaaga aggatgaaga actcagttct gctctggaaa aaatggaaaa tcagtctgaa 1020
aacaatgata tegatgaagt tateatteee acageteeet tatacaaaca gateetgaat 1080
ctgtatgcag aagaaaacgc tattgaagac actatctttt acttgggaga agccttgaga 1140
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aggggcgtga tagacctgga tgtcttcctg aagcatgtac gtcttctgtc ccgtaaacag 1200

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ttccagctga gggcactaat gcaaaaagca agaaagactg ccggtctcag tgacctctac 1260
tgacttctct gataccagct ggaggttgag ctcttcttaa agtattcttc tcttcctttt 1320
atcagtaggt gcccagaata agttattgca gtttatcatt caagtgtaaa atattttgaa 1380
tcaataatat attttctgtt ttcttttggt aaagactggc ttttattaat gcactttcta 1440
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Tyr Arg Asp Leu Thr Val Arg Glu Thr Val Asn Val Ile Thr Leu Tyr
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Lys Asp Leu Lys Pro Val Leu Asp Ser Tyr Val Phe Asn Asp Gly Ser
                            40
Ser Arg Glu Leu Met Asn Leu Thr Gly Thr Ile Pro Val Pro Tyr Arg
                        55
Gly Asn Thr Tyr Asn Ile Pro Ile Cys Leu Trp Leu Leu Asp Thr Tyr
                    70
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Pro Tyr Asn Pro Pro Ile Cys Phe Val Lys Pro Thr Ser Ser Met Thr
                                    90
Ile Lys Thr Gly Lys His Val Asp Ala Asn Gly Lys Ile Tyr Leu Pro
            100
                                105
Tyr Leu His Glu Trp Lys His Pro Gln Ser Asp Leu Leu Gly Leu Ile
                            120
                                                125
Gln Val Met Ile Val Val Phe Gly Asp Glu Pro Pro Val Phe Ser Arg
                        135
                                            140
Pro Ile Ser Ala Ser Tyr Pro Pro Tyr Gln Ala Thr Gly Pro Pro Asn
                    150
                                        155
Thr Ser Tyr Met Pro Gly Met Pro Gly Gly Ile Ser Pro Tyr Pro Ser
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                                    170
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Gly Tyr Pro Pro Asn Pro Ser Gly Tyr Pro Gly Cys Pro Tyr Pro Pro
                                185
                                                    190
Gly Gly Pro Tyr Pro Ala Thr Thr Ser Ser Gln Tyr Pro Ser Gln Pro
                            200
                                                205
Pro Val Thr Thr Val Gly Pro Ser Arg Asp Gly Thr Ile Ser Glu Asp
                        215
                                            220
Thr Ile Arg Ala Ser Leu Ile Ser Ala Val Ser Asp Lys Leu Arg Trp
                    230
                                        235
Arg Met Lys Glu Glu Met Asp Arg Ala Gln Ala Glu Leu Asn Ala Leu
                245
                                    250
Lys Arg Thr Glu Glu Asp Leu Lys Lys Gly His Gln Lys Leu Glu Glu
                                265
                                                    270
Met Val Thr Arg Leu Asp Gln Glu Val Ala Glu Val Asp Lys Asn Ile
                            280
                                                285
Glu Leu Leu Lys Lys Lys Asp Glu Glu Leu Ser Ser Ala Leu Glu Lys
                        295
                                            300
Met Glu Asn Gln Ser Glu Asn Asn Asp Ile Asp Glu Val Ile Ile Pro
                    310
                                        315
Thr Ala Pro Leu Tyr Lys Gln Ile Leu Asn Leu Tyr Ala Glu Glu Asn
                325
                                    330
Ala Ile Glu Asp Thr Ile Phe Tyr Leu Gly Glu Ala Leu Arg Arg Gly
            340
                                345
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## 5398-027-27CONT.ST25

1

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Val Ile Asp Leu Asp Val Phe Leu Lys His Val Arg Leu Leu Ser Arg
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Lys Gln Phe Gln Leu Arg Ala Leu Met Gln Lys Ala Arg Lys Thr Ala
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caucuccaaa uaccacaauc augaccu
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caucaucauc augaggtggc ttatgagtat ttcttccag
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cuacuacuac uacacctttt gagcaagttc agcctggtt
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<211> 10
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<223> primer

<221> VARIANT

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<223> Xaa = Any Amino Acid

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